9800372

THE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Spagenta Seeds, Inc.

THETENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, & CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN LCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'Reno'

In Testimon Thereof, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington, D.C. this second day of April, in the year two thousand two.

Allost:

Palm Zahal

Commissioner Plant Variety Protection Office Agricultural Marketina Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are ma	FORM APPROVED - OMB NO. 0581-00 de in accordance with the Privacy Act
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE	10 010.0. 0020/.	
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)	Application is required in order a certificate is to be issued (7 U.S. until certificate is issued (7 U.S.C	o determine if a plant variety protect C. 2421). Information is held confiden
The Control is to appear on the Certificate)	10.0000 (7 0.3.0	. 2426).
Forage Genetics, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
	FG 3L104	Reno
4. ADDRESS (Street and No., or R.F.D. No., City; State, and ZIP Code, and Country)		
NOZYZ S. Gills Coulee Road	5. TELEPHONE finclude area code;	FOR OFFICIAL USE ONLY
vest Salem, WI 54669 J.S.A.	(608)786-2121	9800372
	6. FAX (include area code)	FIDATE
	(608)786-2193	08/31/1998
GENUS AND SPECIES NAME 8. FAMILY NAME (Bot	tanical)	G .
edicago sativa i		FUNG AND EXAMINATION FIEL
CROP KIND NAME (Common name)	sea	ありして
lfalfa		11/0/000
IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partner		N ///9/98
	rship, association, etc.) (Common name)	1.320,20
IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DATE OF INCORPORATION	E DATE
	March 1991	" @/20/A/
NAME AND ADDRESS OF APPLICANT REPRESENTATIVEISI, IF ANY, TO SERVE IN THIS APPLICATION THE PROPERTY OF THE PROP	AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)
orage Genetics		
5292 S. Gills Coulee Road		(608)786-2121
5292 S. Gills Coulee Road est Salem, WI 54669 USA		(608)786-2121 16. FAX (Include area code)
est Salem, WI 54669 USA		
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Exhibit A (Amended March 19, 2001): Origin and Breeding History of the Variety.

Reno is a synthetic variety with 74 parent plants. Parents were selected for multifoliolate expression and resistance to one or more of the following pests: alfalfa stem nematode, Verticillium wilt and Phytophthora root rot. Germplasm sources used in developing Reno were FG 3B60 (Leafmaster) (31.5%), MultiKing 1 (31%), Dividend (12.5%), LegenDairy (12.5%) and Acheiva (12.5%).

Breeder seed (Syn1) was produced near Nampa, Idaho in 1994. Seed was harvested in total on all parents and bulked to form breeder seed. The breeder has produced sufficient foundation seed (Syn2 or Syn3) for the projected life of the variety. Production of Syn3 foundation seed requires the consent of the breeder.

Alfalfa varieties are heterogeneous populations. Flower color, fall dormancy reaction and other agronomic characteristics were observed on 100 random plants at the Syn1, Syn2 and Syn3 generations. The population mean and variance for these traits was not significantly different over the three generations. No novel variants for any trait were observed during the three generations of seed increase. Forage yield was evaluated over multiple locations for both the Syn1 and Syn2 generations. Forage yield potential (expressed as percent of the check mean) was similar for both generations. Thus, variety has been observed to be uniform and stable through three generations.

Exhibit B: Novelty Statement (Amended March 19, 2001):

This variety can be distinguished from others in the crop by using a number of different varietal traits. The variety most similar to Reno is Legacy. Reno is distinct from Legacy in the following characters which each exceed the minimum distance of 10% between varieties:

1. Spotted alfalfa aphid resistance—Reno is rated resistant (mean SAA, 42%) whereas, Legacy is rated highly resistant (mean SAA, 56%); 2. Aphanomyces root rot resistance—Reno alfalfa has resistance to the disease (mean ARR, 33%) whereas, Legacy has higher resistance (mean ARR, 53%); 3. Stem nematode resistance—Reno is rated HR (mean SNR, 55%) whereas, Legacy expresses low resistance (mean SNR, 7%); 4. Multifoliolate leaf expression—Reno has high expression whereas, Legacy clearly has insignificant to no expression of the character; and, 5. Percent flower color is dissimilar (see PVP data base).

Character 1. Spotted alfalfa aphid resistance. Reno alfalfa has resistance to the disease (mean SAA=42%) whereas, Legacy has high resistance (SAA=56%), which exceeds the minimum distance of 10%.

<u>Test 1</u>. Spotted alfalfa aphid resistance -evaluated by Forage Genetics, Nampa, ID 1996 Lab Test

Entry	%Resistant Plants	%Resistance Adjusted
Reno-syn1 (R)	39	40
Baker (R)	48	50
Arc (S)	3	3
Test mean	40.0	42
L.S.D. 0.05	18	
C.V.(%)	27.5	

Test 2. Spotted alfalfa aphid resistance -evaluated by VISTA, Woodland, CA, 1989 Lab Test

Entry	%Resistant Plants	%Resistance Adjusted	
Legacy-syn1 (HR)	46	55	
Cuf 101 (HR)	50	60	
Ranger (S)	0	0	
Test mean	24	29	
L.S.D. 0.05	6		
C.V.(%)	18		

Exhibit B: Novelty Statement (continued)

Character 1. Spotted alfalfa aphid resistance (continued)

<u>Test 3</u>. Spotted alfalfa aphid resistance -evaluated by Forage Genetics, Nampa, ID 1999 Lab Test

•	%Resistant	%Resistance
Entry	Plants	` Adjusted
Reno-syn2 (R)	31	41
Legacy - syn2 (HR)	43	56
Baker (R)	38	50
Arc (S)	3	3
Test mean	38	
L.S.D. 0.05	12	
C.V.(%)	18.8	

 $\underline{\text{Test 4}}$. Spotted alfalfa aphid resistance -evaluated by Forage Genetics, Nampa, ID 2000 Lab Test

	%Resistant	%Resistance
Entry	Plants	Adjusted
Reno-syn2 (R)	42	44
Legacy-syn2 (HR)	56	58
Baker (R)	48	50
Arc (S)	4	4
Test mean	37	
L.S.D. 0.05	9	
C.V.(%)	15.2	

Exhibit B: Novelty Statement (continued)

Character 2. Aphanomyces Root Rot Resistance (Race 1).

Reno alfalfa has resistance to the disease (mean ARR=33% whereas, Legacy has ARR=53%).

<u>Test 1</u>. Aphanomyces Root Rot Resistance (Race 1)-evaluated by Forage Genetics, Nampa, ID 2000 Lab Test

	%Resistant	%Resistance
Entry	<u>Plants</u>	Adjusted
Reno-syn2 (R)	37	36
Legacy-syn2 (R)	53	51
WAPH-1 (R)	52	50
Agate (S)	2	2
Test mean	48	
L.S.D. 0.05	12.5	
C.V.(%)	25.9	

<u>Test 2</u>. Aphanomyces Root Rot Resistance (Race 1)-evaluated by Forage Genetics, West Salem, WI 2000 Lab Test

Entry	%Resistant Plants	%Resistance Adjusted
Reno-syn2 (R)	27	30
Legacy-syn2 (R)	50	55
WAPH-1 (R)	45	50
Agate (S)	0	0
Test mean	31	
L.S.D. 0.05	14	
C.V.(%)	19.0	

Exhibit B: Novelty Statement (continued)

Character 3. Alfalfa stem nematode resistance.

<u>Test 1</u>. Alfalfa stem nematode resistance-evaluated by Forage Genetics, Nampa, ID 1997 Lab Test

Entry	%Resistant Plants	%Resistance Adjusted
Reno-syn2 (HR) Legacy (LR)	49 7	54 8
Lahontan (R)	36 4	40 4
Ranger (S) Test mean	40	44
L.S.D. 0.05 C.V.(%)	11.6 17.2	

<u>Test 2</u>. Alfalfa stem nematode resistance-evaluated by Forage Genetics, Nampa, ID 2000 Lab Test

<u>Entry</u>	%Resistant Plants	%Resistance Adjusted	
Reno-syn2 (HR)	60	57	
Legacy-syn2 (LR)	6	6	
Lahontan (R)	42	40	
Ranger (S)	3	3	
Test mean	29		
L.S.D. 0.05	8		
C.V.(%)	18		

 $\underline{\text{Test}}\,3.\,$ Alfalfa stem nematode resistance-evaluated by Forage Genetics, Nampa, ID 2000 Lab Test

%Resistant Plants	%Resistance Adjusted	
53	54	
7	7	
39 2	40 2	
34		
9		
17.9		
	9 Plants 53 7 39 2 34 9	Plants Adjusted 53 54 7 7 39 40 2 2 34 9

Exhibit B: Novelty Statement (continued)

Character 4. Multifoliolate Leaf Expression.

Reno alfalfa has high expression (see Exhibit D) whereas Legacy has only incidental or slight expression of the trait in the field and was never bred to express the trait (see NAVRB Legacy summary, paragraph 1, and PVP data base).

Character 5. Flower Color. Also see PVP data base.

Variety	% purple	%variegated	%cream	%yellow	%white
Reno (see Exhibit C section	99 n 7)				1
Legacy (see NAVRB summar	65 ry 1990/1991)	35			

U.S. DEPARTMENT OF AGRICULTURE EXHIBIT C

AGRICULTURAL MARKETING SERVICE SCIENCE & TECHNOLOGY DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

(Alfalfa)

OBJECTIVE DESCRIPTION OF VARIETY

ALFALFA (Medicago sativa, sensu Gunn et al.)

AME OF APPL	JCANT(S)	
	Novartis Seeds, Inc.	FOR OFFICIAL USE ONLY
DRESS (Street	et and No. or R.F.D. No., City, State, and Zip Code)	PVPO NUMBER 9800372
	7504	VARIETY NAME
	7500 Olson Memorial Hwy Golden Valley, MN 55427	Reno
		TEMPORARY OR EXPERIMENTAL DESIGNATION
EASE READ A	LI. INSTRUCTIONS CAPETYING	FG 3L104
dard may be u ase answer :	all questions for your variety; lack of response may delay progres	ic same trial. Royal Horticultural Co-in
FALL DOR	MANCY: (DETERMINED FROM SPACED PLANTINGS)	

TOTAL OF THE		·	REGRO	WTH SCORE OR .					
ESTING INSTITUTION AND LOCATION	DATE OF LAST CUT	DATE REGROWTH	APPLICATION	CHECK VARIETIES*			1		
		SCORED	VARIETY	One≟daVR	Legend	Pike	LSD .05	cv	\bar{X}
rage Genetics mpa, ID	9/97	10/97	7.85	6.36	7.36	10.87	1.37	8.1	
(* The varieties in r									

* The varieties in parentheses are acceptable check varieties; application varieties must be bracketed by check varieties)

6 CLASS

- 1 = Very Non-Dormant ('CUF 101', 'Mecca', '5929')
- 2 = Non-Dormant ('Moapa 69', '5715', 'Pierce')
- 3 = Non-Dormant ('Mesilla', 'Sutter', 'Malone')
- 4 = Moderately Dormant ('Lahontan', '581', 'Express')
- 5 = Moderately Dormant ('Excalibur', 'Du Puits', '555')
- 6 = Moderately Dormant ('Saranac', 'WL 316', 'Legend')
- 7 = Dormant ('Ranger', 'Arrow', 'WL 317')
- 8 = Dormant ('Vernal', '526', 'Wrangler')
- 9 = Very Dormant ('Norseman', '5151', 'Spredor 2')

Specify scoring system used: inches regrowth, standard test, 1995 revision

- 5 FALL GROWTH HABIT (Determined from Fall Dormancy Trials)
 - 1 = Erect ('CUF 101')
 - 3 = Semi-Erect ('Mesilla')
 - 5 = Intermediate ('Saranac AR')
 - 7 = Semi-Decumbent ('Vernal')
 - 9 = Decumbent ('Norseman')

RECOVERY AFT	ER FIRST SPRING CUT (In Southwest, first cut after March 21):	Exhibit C (Alfalfa) Page
5	1=Very fast ('CUF 101') 3= Fast ('Mesilla') 5=Intermediate ('Ranger') 9=Very slow ('Norseman')	7=Slow ('Vernal')
· .	TEST LOCATION: Nampa, ID	
AREAS OF ADAPT Describe the ar in which it may THIS CHARAC	FATION IN U.S.: rea for which this variety is adapted; that is, define geographically, or in terms of climate reasonably be expected to perform well. CTERIZATION MUST BE SUPPORTED BY TEST LOCATIONS AND DATA ON PE	e and soils, the region(s)
Winterha	ardy Intermountain U.S.	KSISTENCE.
• .		
FLOWERING DATE	E (When 10% of plants possesses open flowers at time of first spring cut):	
0 0	Days earlier than	•
	termined from healthy regrowth 3 weeks after first spring cut, controlling leafhoppers if necessary): I = Very Dark Green ('524')	ger')
	mined from spaced plants): ping types 1=Broad ('Vernal') 2=Intermediate ('Saranac AR') 3=Narro	ow ('CUF 101')
LOWER COLOR (De	etermine frequency of plants for each color class as defined by USDA Agricultural Handbook No. 424 (Barn	es 1972),
	Purple and Violet (Subclasses 1.1 to 1.4)	
· · · · · · · · · · · · · · · · · · ·	Variegated (Subclasses 2.1 to 2.0)	es 4.1 to 4.4)
%	Cream (Class 3) White (Class 5)	
Те	est Location Nampa, ID	

OD SHAPE (Determ	ine frequency of p	olants wit	h the following no	d shapes produced on well cros		Exhibit C (Alfalfa
0 9 5				, center more or less close		
0 0 5				, center conspicuously op		
	% Sickle (less			, center conspicuously op	en).	
<u> </u>	Test location		a, ID			
	1 est location	Nallip	a, IU			
the firms, agricultural ex the firms, agricultural ex the levels should be char in resistance averages as ted values. Trial data fr	te institution in cha periment stations of acterized using % approved by the loom other test year clow can be obtain teck varieties listed	or USDA. resistant NAAIC. I s or locat	t, and location of a Describe scoring plants as follows: Data must be adjustions should be pre	ate space, trial data for application of plants tested, least significest, and whether test is a field system and any test procedure S=6%, LR=6-14%, MR=15-sed to the long term mean of the sented whenever available on a & Alfalfa Research Laborator ed according to the expected visual series when the series where the series when the series when the s	the control of the c	D. US), coefficient of value at a must be from tests of proved by the NAAIC. Checks should be be upply both adjusted and the best of the checks.
RACNOSE (RACE			•			
Test conducted by	rorage G	eneti	cs	at Nampa, ID		
Variety	Resistance C Expected V	- 1	Syn. Gen.	Unadjusted %	Adjusted %	Number of
This Variety	HR	aiue	Tested Syn 1	Resistance	Resistance	Plants Tested
1. 'Arc' or 2. 'Saranac AR'	HR 65%		Syn şı	68 53	83 65	220
3. 'Saranac'	R 45% S	\		1		
L.S.D. (.05)		· · · · · · · · ·		13		
C.V. (%) x̄			•	16.3		
Pill V				57	·	
Field or Laborator						
Scoring system used	<u>standar</u>	d te	st			·
ACNOSE (RACE 2	2) (Colletotrichi	um trifo	lii)			
est conducted by_		•		at		
Variety	Resistance		ynthetic			
	Class	Genei	ynthetic ration Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety						rians rested
1. 'Saranac AR' 2. 'Arc' or	R 45% S					
3. 'Saranac'	S					
L.S.D. (.05)		 -				
C.V. (%) ×] .		

Field or Laboratory/ Year Tested_

Scoring system used.

0

A. DISEASE RESISTANCE: (continued)

Exhibit C (Alfalfa) Page 4

APHANOMYCES ROOT ROT (Race 1) (Aphanomyces euteiches)

Test conducted by Forage Genetics

at West Salem, WI

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety 1. 'WAPH-1' 2. 'Agate'	R R 50% S 1%	syn 1	33 48 0	34 50 0	220
L.S.D. (.05) C.V. (%)			7.6 26.8 28.4		

Field or Laboratory/ Year Tested 1ab / 1996

Scoring system used Standard test

PHANOMYCES ROOT ROT (Race 2) (Aphanomyces euteiches)

Test conducted by_____

t___:

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety 1. 'WAPH-1' 2. 'Agate'	R 50% S 1%				
L.S.D. (.05) C.V. (%)					

Field or Laboratory/ Year Tested_

Scoring system used_

ACTERIAL WILT (Clavibacter michiganense)

Test conducted by Forage Genetics

at.____West Salem, WI

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety I. 'Vernal' 2. 'Narragansett' 3. or 'Sonora'	HR R 42% S 1% S 1%	syn 1	55 43 2	54 42 	150
L.S.D. (.05) C.V. (%) ×	\$		11.3 15.3 55		

Field or Laboratory/ Year Tested field / 1996

Scoring system used standard test

C. DISEASE RESISTANCE: (continued)

COMMON LEAFSPOT (Pseudopeziza medicaginis)

Test conducted by	at
-------------------	----

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
This Variety 1. 'MSA-CW3ANS3' 2. or 'Ramsey' 3. 'Ranger' 4. 'Moapa 69'	HR 60% HR 60% MR 30% S 0-10%				Plants Tested
L.S.D. (.05) C.V. (%)					

Field	or Laborate	ory/ Y	ear	Tested	_
-------	-------------	--------	-----	--------	---

Scoring system used

OWNY MILDEW (Peronospora trifoliorum) Isolate, if known

Test conducted by

at.

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety 1. 'KS208' 2. 'Saranac'	HR 80%			Z. S.	Flants Tested
isolates 15 & 17. isolate 18 3. 'Kanza'	MR 15-20% R 50-60% S 0-5%	,			·
L.S.D. (.05) C.V. (%)					
×					

Field or Laboratory/ Year Tested ___

Scoring system used _

SARIUM WILT (Fusarium oxysporum f. medicaginis)

Test conducted by Forage Genetics

at West Salem, WI

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety 1. 'Agate' 2. 'MNGN-1'	HR HR 54% S 4%	syn 1	70 47	76 8ð 54	150
L.S.D. (.05) C.V. (%)			11.8 14.4 63	4	

Corrected MAH In 16/00

Field or Laboratory/ Year Tested ____field / 1996

standard test

Scoring system used .

Exhibit C (Alfalfa) Page 6

A. DISEASE RESISTANCE: (continued)

PHYTOPHTHORA ROOT ROT (Phytophthora megasperma f. medicaginis)

Test conducted by Forage Genetics

at Nampa, ID

Variety	Resistance	Company			
This Variety	Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
T M War to the contract of the	HR XXXXX HR 55% S 3%	syn 1	63 55	ે63	Plants Tested
C.S.D. (.05) C.V. (%)			3	55 3	
(70)			12.6 17.0 54.5		

Scoring system used_standard test 1995 revision (WAPH-1=55%)

RTICILLIUM WILT (Verticillium albo-atrum)

Test conducted by Forage Genetics

Nampa, ID

Variety This Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
1. 'Vertus' or 2. 'Oneida VR' 3. 'Saranac' L.S.D. (.05)	R 40% HR 60% S 2%	syn 1	33 57 3	35 60 3	Plants Tester
C.V. (%)	Year Tested lab		13.0 25.9 25.8		

Scoring system used standard test

R (SPECIFY)_

Test conducted by_____

Variety This Variety 1.	Resistance Class	Synthetic Unadjusted 9 Generation Tested Resistance	Adjusted % Resistance	Number of Plants Tested
2. 3. L.S.D. (.05)	s			
C.V. (%) Rield or Laboratory/	· · · · · · · · · · · · · · · · · · ·			

Field or Laboratory/ Year Tested_

Scoring system used.

INSECT RESISTANCE:

Exhibit C (Alfalfa) Page 7

LUE ALFALFA APRID (Acyrthosiphon kondoi)

Test conducted by_

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
This Variety 1. 'CUF 101' 2. 'PA-1' or 3. 'Caliverde'	HR 55% S 10% S 3%			Resistance	Plants Tested
L.S.D. (.05) C.V. (%) ×					

Field or Laboratory/ Year Tested___

Scoring system used

A APHID (Acyrthosiphon pisum)

Test conducted by Forage Genetics

Nampa, ID

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
This Variety 1. 'CUF 101' or 2. 'PA-1' or 3. 'Baker' 4. 'Yernal' or 5. 'Moapa 69'	R HR 55% HR 55% R 45% S 5% S 5%	syn 1	36 54 +- 3	37 55 3	Plants Tested
L.S.D. (.05) C.V. (%)			14 25.4 33		

Field or Laboratory/ Year Tested_ lab./ 1996

Scoring system used. standard test

TTED ALFALFA APHID (Therioaphis maculata)

Test conducted by Forage Genetics, Nampa,

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
This Variety 1. 'CUF 101' or 2. 'Baker' 3. 'Arc' or 4. 'Caliverde'	R HR 60% R 50% S 3% S 3%	syn 1	39 48 3	40 50	Plants Tested 210
L.S.D. (.05) C.V. (%) ¤	entry for		18 27.5 40		

Field or Laboratory/ Year Tested_ lab / 1996

Scoring system used_standard test

Exhibit C (Alfalfa) Page 8

· INSECT.RESISTANCE: (continued)

TATO LEAFHOPPER YELLOWING (Empoasca faba
--

Test conducted by	8	at		
Variety Resis	tance Synthetic	Unadjusted %	Adjusted 9/	

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
This Variety I. 'MSA-CW3AN3' 2. 'Ranger'	R 70% S 5%			resistance	Plants Tested
L.S.D. (.05) C.V. (%)	·				

Field or Laboratory/ Year Tested__

Scoring system used__

HER (SPECIFY)

Test conducted by_____

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
This Variety			тсымисе	Resistance	Plants Tested
1.					
2.					
3.	S				~
LS.D. (.05)					
C.V. (%)			1		
₹			1		

Field or Laboratory/ Year Tested___

Scoring system used

IEMATODE RESISTANCE:

THERN ROOT KNOT NEMATODE (Meloidogyne hapla)

Test conducted by_

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
This Variety I. 'Nevada Syn XX' 2. 'Lahontan'	HR 90% S 3%			Resistance	Plants Tested
L.S.D. (.05) C.V. (%)	enter de				

Field or Laboratory/ Year Tested_

Scoring system used

Exhibit C (Alfalfa) Page 9

C. NEMATODE RESISTANCE: (continued)

SOUTHERN ROOT KNOT NEMATODE (Meloidogyne incognita)

Test conducted by	at

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of
This Variety 1. 'Moapa 69' 2. 'Lahontan'	R 50% S 3%			ACCIDENTAL	Plants Tested
L.S.D. (.05) C.V. (%) ¤					
x ield or Laborator	V/ Year Tested				

Scoring system used_

FEM NEMATODE (Ditylenchus dipsaci)

Test conducted by Forage Genetics

at Nampa, ID

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety I. 'Vernema' or 2. 'Lahontan' 3. 'Ranger' or 4. 'Moapa 69'	HR R 60% R 40% S 5% S 1%	syn 1	42 30 6	56 40 8	400
L.S.D. (.05) C.V. (%)			9 21.4 30		

Field or Laboratory/ Year Tested lab / 1994

standard test Scoring system used

HER (SPECIFY)_

Test conducted by_____

Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
This Variety					rants resteu
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S.D. (.05)					
C.V. (%)					
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Field or Laboratory/ Year Tested_

Scoring system used_

Test conducted b	у		at		
Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
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ield or Laborato	ry/ Year Tested_				1
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Variety	Resistance Class	Synthetic Generation Tested	Unadjusted % Resistance	Adjusted %	Number of
This Variety L.			·	Resistance	Plants Tested
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S.D. (.05) C.V. (%)					
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t conducted by_			at		
Variety!	Resistance Class (Synthetic Generation Tested	Unadjusted % Resistance	Adjusted % Resistance	Number of Plants Tested
is Variety					. made A cated
	S				
S.D. (.05) V. (%)					
	Year Tested				

PVP Application- Reno Alfalfa Item 14. Attachments submitted

Exhibit D. Additional Description of the Variety.

Part 1. Winter Survival

Reno alfalfa has above average winter survival for its fall dormancy classification. Data was collected using the Winter Survival test from the green book (March 1995 revision).

Winter survival of Reno alfalfa (Average Severity Index) - Test conducted by Forage Genetics

Test Location	Syn <u>Gen</u>	estab. mo/year	reading mo/year	test <u>variety</u>	2. <u>Vernal</u>	3. <u>Dart</u>	4. <u>G2852</u>	LSD (.05)	CV (%)
West Salem, WI	1	5/96	5/97	2.8	2.2	3.3	4.1	0.48	8.77
Nampa, ID	I	5/96	5/97	3.1	1.8	3.3	4.3	0.42	6.81

Part 2. Multifoliolate Leaf Expression

Reno alfalfa has high expression of the multifoliolate leaf trait. Data was collected using the Multifoliolate Leaf Expression test from the green book (March 1995 revision).

Multifoliolate leaf expression of Reno alfalfa (%MF and M.F.I.) - Test conducted by Forage Genetics at Nampa, ID in the field, 1997.

	Syn		
Variety	<u>Gen</u>	<u>%MF</u>	MF index
test variety (high)	1	90	3.57
1. Proof (high)		86	3.34
2. MultiKing 1 (moderate)		53	2.14
3. Vernal (trifoliolate)		1	1.04
		•	
Test mean	-	58	2.44
L.S.D. (0.05)		13	0.61
C.V. (%)		15.7	17.8

REPRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	FORM APPROVED - OMB NO. 0581-008 The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.		
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to	determine if a plant variety protection	
1. NAME OF APPLICANT(S) Forage Genetics, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER FG 3L104	3. VARIETY NAME	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) N5292 S. Gills Coulee Rd. West Salem, WI 54669 U.S.A.	5. TELEPHONE (include area code) (608)78692121 7. PVPO NUMBER	6. FAX (include area code) (608) 786-2193	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate blooms.	ock. If no, please explain.	X YES NO	
9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country		X YES NO	
a. If original rights to variety were owned by individual(s), is (are) the YES NO If no, give name of country b. If original rights to variety were owned by a company, is the original YES NO If no, give name of country			
11. Additional explanation on ownership (If needed, use reverse for extra space):			
PLEASE NOTE:			
Plant variety protection can be afforded only to owners (not licensees) who meet one 1. If the rights to the variety are owned by the original breeder, that person must be of a country which affords similar protection to nationals of the U.S. for the same	Note that the second of the se	POV member country, or national	
If the rights to the variety are owned by the company which employed the original nationals of a UPOV member country, or owned by nationals of a country which genus and species.	genus and species.		
 If the applicant is an owner who is not the original owner, both the original owner he original breeder/owner may be the individual or company who directed final breed or definition. 	and the applicant must meet or ling. See Section 41(a)(2) of the	ne of the above criteria.	
According to the Paperwork Reduction Act of 1995, no persons are required to respond to number. The valid OMB control number for this information collection is collection is estimated to average 10 minutes per response, including the time for read maintaining the data needed, and completing and reviewing the collection of informations.	ond to a collection of information 0581-0055. The time require	on unless it displays a valid OMD	

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N5292 S. Gills Coulee Road West Salem, Wisconsin 54669 Phone 608-786-2121 FAX 608-786-2193

June 30, 1998

Jeff Jorgensen, Alfalfa Product Manager Novartis Seeds, Inc. Field Crops - NAFTA P.O. Box 959 Minneapolis, MN 55440

Dear Jeff:

The alfalfa (Medicago sativa L.) variety "Reno" (experimental designation, FG 3L104) was developed by Dr. Peter Reisen, an employee of Forage Genetics. As a condition of employment, said employee has agreed that all rights to the variety "Reno" are transferred to Forage Genetics, with no rights to the variety retained by the employee. Forage Genetics has licensed certain rights for the variety to Novartis Seeds, Inc. These rights include: worldwide marketing rights, the right to commercial seed production, the right to name the variety and to independently develop programs for the marketing and sale of the variety, the right to file for Plant Variety Protection of the variety and, the right to represent the variety in international variety registration. These rights for the variety "Reno" have been assigned to Novartis Seeds, Inc. on an exclusive basis.

Mark McCaslin

President

Forage Genetics, Inc.

MM/snf